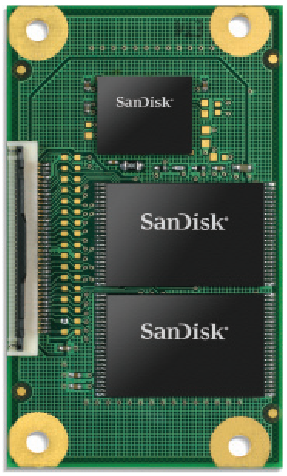
# SanDisk® pSSD™

## Solid State Drive

Rugged & Reliable
Cost Effective
High Performance



SanDisk® pSSD™ solid state drive introduces all the benefits of flash memory to the exciting, new netbook market. Rugged and reliable, SanDisk pSSD solid state drive is the right storage module for netsurfing and wireless communication on ultra low cost PC (ULCPC) netbooks. With up to 16GB* multi-level cell (MLC) NAND flash, it is a fraction of the weight and cost of a hard disk drive. An advanced controller, representing the best of the company's years of expertise with the parallel ATA (PATA) interface, makes SanDisk pSSD solid state drive both fast and power-efficient.

SanDisk pSSD solid state drive. Everything that flash storage should be for today's mobile PC lifestyle.

### A Perfect Match for ULCPCs

SanDisk pSSD PATA-based solid state drive was designed especially to meet the requirements of ULCPCs. These small laptops must be lightweight, rugged and reliable for mobile users in the consumer market, giving them easy Internet access and making wireless communication fun.

### Rugged and Reliable

SanDisk pSSD solid state drive has no moving parts, making it far more reliable than a HDD. It withstands the wear-and-tear of people on the go, and operates soundlessly in environments where noise is a nuisance, such as classrooms. SanDisk patented flash management technology brings high data integrity to its pSSD solid state drives. Dynamic bad block management, dynamic and static wear-leveling, and robust error detection and correction code (EDC/ECC) ensure data reliability.

### Fast and Power Efficient

SanDisk pSSD solid state drive boots fast and keeps working at high speed, without the need to spin up into action or to seek files like a conventional HDD. SanDisk pSSD solid state drive achieves an industry-leading sustained read speed as high as 39MB/sec and a sustained write speed of up to 17MB/sec with multi-level cell (MLC) NAND flash technology. Solid-state operation also extends battery life, critical for ULCPC users.

### Low Cost and Lightweight

With MLC NAND technology, SanDisk pSSD solid state drive gives users just the amount of memory they need at a cost they can afford. A case-less module, SanDisk pSSD solid state drive is one-tenth the weight of a typical 1.8" HDD. SanDisk pSSD solid state drive enables sleek and slim ULCPC industrial design to meet worldwide consumer demands.

SanDisk®

## Specifications

**High Reliability**

- Unlimited read cycles
- SMART feature supported
- Dynamic and static wear-leveling
- Dynamic bad block management
- Advanced EDC/ECC
- No preventive maintenance
- Up to 4M mean time to failure (MTTF)** hours

**High Performance**

- Transfer modes supported: UMDA 0-4, Multiword-DMA 0-2, PIO 0-4
- Sustained read: 39MB/s
- Sustained write: 17MB/s

**Characteristics**

- Interface: Parallel ATA (PATA)
- MLC NAND flash capacity: 4GB, 8GB, 16GB

**Electrical Specifications**

- DC supply voltage: 3.3V ±5%
- Standby current: 300µA (typical)
- Active current (typical): Read = 130mA, Write= 120mA

**Environmental Specifications**

- Operating temperature: 0˚C to +70˚C
- Storage temperature: –25˚C to +85˚C
- Operating altitude: up to 80,000 feet
- Humidity: 5% to 90% non-condensing
- Shock: 1,000G
- Acoustic noise: 0dB
- Vibration: 15G (peak to peak)

**Physical Specifications**

- Connector: 40-pin ZIF connector
- Weight: 4.9g (4GB), 5.5g (8GB), 7.0g (16GB)
- Dimensions:
  54mmx32mmx2.5mm (4GB, 8GB)
  54mmx32mmx3.75mm (16GB)

**Regulations and Compliance**

- RoHS, China RoHS, SGS RoHS, UL, FCC, CE

**OS Support**

- XP, Linux


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For more information, please visit www.sandisk.com/pssd

Product not available until August 2008.

* *1 gigabyte (GB) = 1 billion bytes; 1 megabyte (MB) = 1 million bytes; speed based on internal testing; performance may be lower depending on host device. Some capacity not available for data storage.*

** *Based on internal testing. The MTTF calculation does not take into account the disk endurance limitation. For the disk endurance, please refer to the endurance section in the product specification.*